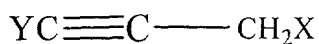


## WHAT IS CLAIMED IS

1           1.       A liquid synergistic preservative formulation comprising a halopropynyl compound  
2 and butoxydiglycol solvent.

1           2.       The preservative formulation of claim 1, wherein said halopropynyl compound is a  
2 compound of formula I:



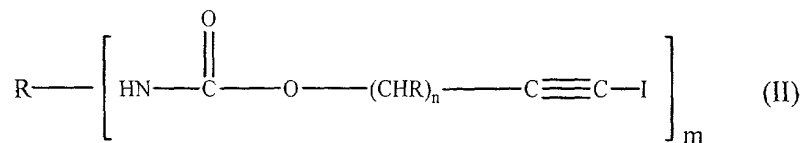
4       wherein Y is a halogen, X is selected from the group consisting of O, N, S or C, wherein said O, N,  
S, or C is part of an organic functional group.

3           3.       The preservative formulation of claim 1, wherein said halopropynyl compound is an  
iodopropynyl compound.

4           4.       The preservative formulation of claim 2, wherein X is carbon, oxygen or nitrogen and  
is part of an ether, ester or carbamate group.

1           5.       The preservative formulation of claim 2, wherein X is nitrogen and is part of an  
2 amine, amide or a carbamate group.

1           6.       The preservative formulation of claim 3, wherein said iodopropynyl compound is a  
2 compound of formula II:

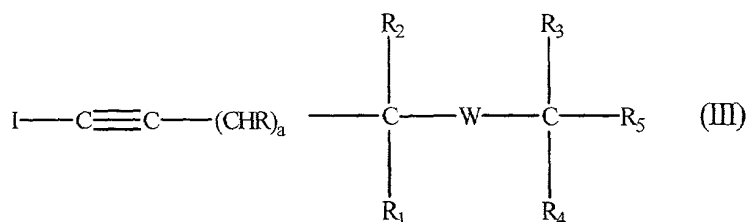


wherein:

R is selected from the group consisting of substituted and unsubstituted alkyl, aryl, and alkylaryl groups having from 1 to 20 carbon atoms; and

m and n are independently selected from 1, 2 or 3.

7. The preservative formulation of claim 3, wherein said iodopropynyl compound is a compound of formula III:



wherein:

R<sub>1</sub> and R<sub>2</sub> are defined as R<sub>3</sub> and R<sub>4</sub> below or are joined to form a cycloalkyl, cycloalkenyl, aromatic or a heterocyclic ring containing an oxygen, nitrogen or sulfur atom or an alkoxy, amino, carboxyl, halo, hydroxyl, keto or a thiocarboxyl-substituted derivative thereof;

R<sub>3</sub> and R<sub>4</sub> are independently selected from (A) hydrogen, alkyl, cycloalkyl, alkenyl, cycloalkenyl, aryl, a heterocyclic ring containing an oxygen, nitrogen or sulfur atom, alkoxy, amino,

14 carboxyl, halo, hydroxyl, keto or a thiocarboxyl and (B) substituted derivatives of the alkyl,  
15 cycloalkyl, alkenyl, cycloalkenyl, aryl and the heterocyclic ring wherein the substitutions are alkyl,  
16 cycloalkyl, alkenyl, cycloalkenyl, aryl, alkoxy, amino, carboxyl, halo, hydroxyl, keto or a  
17 thiocarboxyl;

18 a is 0 to 16; and

19 W may be a single bond, oxygen,  $\text{NR}_5$ , or  $(\text{CR}_6\text{R}_7)_m$ , wherein  $\text{R}_5$  is hydrogen, alkyl,  
20 cycloalkyl, alkenyl, cycloalkenyl, aryl or a heterocyclic ring containing an oxygen, nitrogen or sulfur  
21 atom or a substituted derivative of alkyl, cycloalkyl, alkenyl, cycloalkenyl or aryl groups wherein the  
22 substitutions are alkyl, cycloalkyl, alkenyl, cycloalkenyl, aryl, alkoxy, amino, carboxyl, halo,  
23 hydroxyl, keto, or a thiocarboxyl wherein  $\text{R}_6$  and  $\text{R}_7$  are defined as  $\text{R}_3$  and  $\text{R}_4$  above; and

24 m is an integer from 1 to 12.

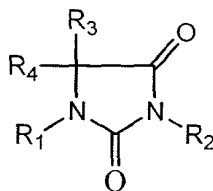
8. The preservative formulation of claim 7, wherein said compound of formula III is  
iodopropynyl maleate.

1 9. A personal care product, household product or industrial product comprising an  
2 antimicrobial effective amount of a preservative formulation of claim 1.

1 10. A method for killing or inhibiting the growth of microbes in a composition  
2 susceptible to growth, comprising adding to said composition an antimicrobial effective amount of  
3 a preservative formulation of claim 1.

1 11. The preservative formulation of claim 1, further comprising an alkanol substituted  
2 dialkylhydantoin.

1 12. The preservative formulation of claim 11, wherein said alkanol substituted dialkyl  
2 hydantoin is a compound of formula V:



(V)

wherein R<sub>1</sub> and R<sub>2</sub> are each independently hydrogen or (CH<sub>2</sub>)OH, with the proviso that both R<sub>1</sub> and R<sub>2</sub> cannot be hydrogen, and R<sub>3</sub> and R<sub>4</sub> are each independently methyl, ethyl, propyl, or aryl.

13. The preservative formulation of claim 11 wherein said alkanol substituted dialkylhydantoin is dimethylol dimethylhydantoin.

1 14. A personal care product, household product or industrial product comprising an  
2 antimicrobial effective amount of a preservative formulation of claim 11.

1 15. A method for killing or inhibiting the growth of microbes in a composition  
2 susceptible to growth, comprising adding to said composition an antimicrobial effective amount of  
3 a preservative formulation of claim 11.

16. A liquid preservative formulation, comprising

a) a halopropynyl compound;

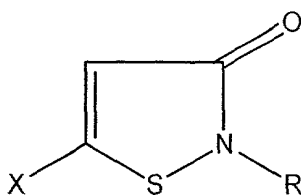
b) an alkanol substituted dialkylhydantoin;

c) a hydroxyl solvent; and

d) an isothiazolone derivative.

17. The preservative formulation of claim 16, wherein said hydroxyl solvent is butoxydiglycol.

18. The preservative formulation of claim 16 wherein said isothiazolone derivative is a compound of formula IV:



(IV)

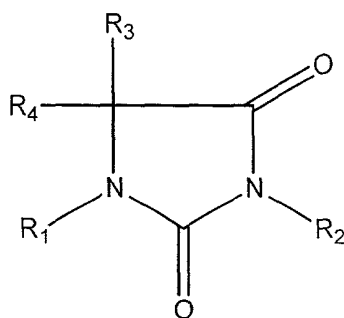
wherein X is hydrogen or halogen, and R is C<sub>1-22</sub> alkyl.

19. The preservative formulation of claim 16 wherein said isothiazolone derivative is selected from the group consisting of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-4-isothiazolin-3-one.

1            20. The preservative formulation of claim 16 wherein said isothiazolone derivative is  
2 selected from the group consisting of 4-chloro-2-methyl-4-isothiazolin-3-one;  
3 4,5-dichloro-2-methyl-4-isothiazolin-3-one; 5-bromo-2-methyl-4-isothiazolin-3-one; 2-n-octyl-4-  
4 isothiazolin-3-one; and benzisothiazolone.

1            21. The preservative formulation of claim 16, further comprising a stabilizer.

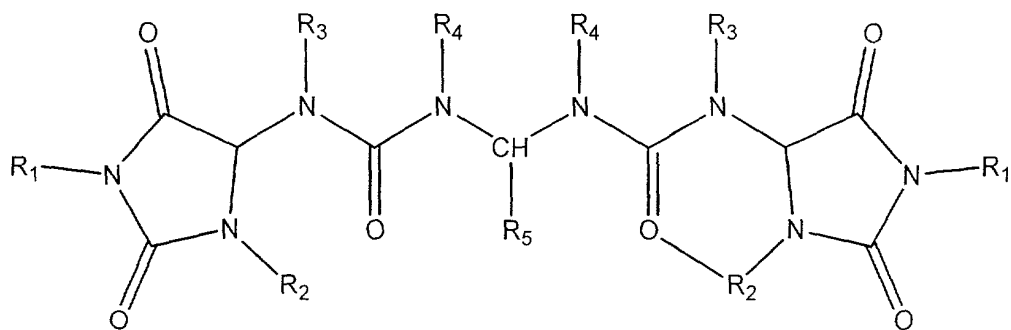
22. The preservative formulation of claim 21 wherein said stabilizer is selected from the  
group consisting of (a) a compound of formula VI:



(VI)

where  $R_1$  to  $R_4$  are independently selected from H and a  $C_1$  to  $C_{22}$  alkyl; or

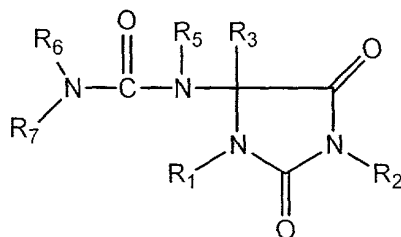
(b) a compound of formula VII:



(VII)

wherein  $R_1$  to  $R_5$  are independently selected from H or  $C_1$  to  $C_{22}$  alkyl; or

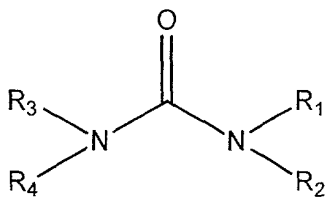
(c) a compound of formula VIII:



(VIII)

where  $R_1$  to  $R_7$  are independently selected from H,  $CH_3$ ,  $C_2H_5$  or  $C_3H_7$ ; or

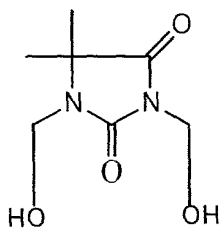
(d) a compound of formula IX:



(IX)

34 where R<sub>1</sub> to R<sub>4</sub> are independently selected from H or C<sub>1</sub> to C<sub>12</sub> alkyl.

1 23. The preservative formulation of claim 16 wherein said alkanol substituted  
2 dialkylhydantoin is



24. The preservative formulation of claim 21, wherein said stabilizer is 5,5-  
dimethylhydantoin or methylethylhydantoin.

25. A personal care product, household product, or industrial product comprising an  
antimicrobial effective amount of a preservative formulation of claim 16.

1 26. A method for killing or inhibiting the growth of microbes in a composition  
2 susceptible to growth, comprising adding to said composition an antimicrobial effective amount of  
3 a preservative formulation of claim 16.

1 27. A method of making a liquid preservative formulation, comprising dissolving a  
2 halopropynyl compound in a butoxydiglycol, and optionally adding a water-based additive.



1           28.    The method of claim 27, wherein said halopropynyl compound is an antimicrobial  
2   iodopropynyl compound.

1           29.    The method of claim 27, wherein said water-based additive is selected from the group  
2   consisting of an isothiazolone derivative, an alkanol substituted dialkylhydantoin, and a stabilizer.

1           30.    The method of claim 27, wherein said step of dissolving occurs at room temperature.

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